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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	APR 04	STN AnaVist $500 visualization usage credit offered
NEWS 5	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 6	MAY 11	KOREAPAT updates resume
NEWS 7	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 8	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 9	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 10	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 11	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 12	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 14	JUl 14	FSTA enhanced with Japanese patents
NEWS 15	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 16	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 17	AUG 28	ADISCTI Reloaded and Enhanced

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:06:24 ON 29 AUG 2006

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:06:39 ON 29 AUG 2006

Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 28 AUG 2006 HIGHEST RN 904961-01-9
DICTIONARY FILE UPDATES: 28 AUG 2006 HIGHEST RN 904961-01-9

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REGISTRY includes numerically searchable data for experimental and
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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

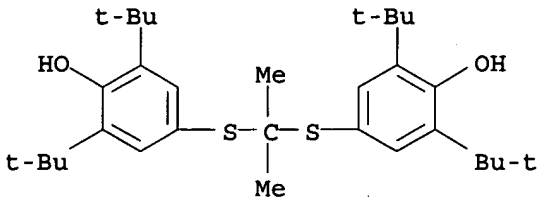
```
=> e probucol/cn
E1            1     PROBRIMIDE 200/CN
E2            1     PROBROMIDE 286/CN
E3            1 --> PROBUCOL/CN
E4            1     PROBUCOL DISUCCINATE/CN
E5            1     PROBUCOL MONOSUCCINATE/CN
E6            1     PROBUCOL SPIROQUINONE/CN
E7            1     PROBURSIN TETRADECAPEPTIDE/CN
E8            1     PROBUTYL DB 10/CN
E9            1     PROBUTYLIN/CN
E10           1     PROC (METHANOSPHAERA STADTMANAE STRAIN DSM 3091 GENE PROC)/C
                    N
E11           1     PROC (MYCOBACTERIUM AVIUM PARATUBERCULOSIS STRAIN K-10 GENE
                    PROC)/CN
E12           1     PROC (PASTEURELLA MULTOCIDA STRAIN IL1403 CLONE PM70 GENE PR
                    OC)/CN

=> e3
L1            1 PROBUCOL/CN

=> d l1

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   23288-49-5  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Phenol, 4,4'-[(1-methylethylidene)bis(thio)]bis[2,6-bis(1,1-dimethylethyl)-
      (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Acetone, bis(3,5-di-tert-butyl-4-hydroxyphenyl) mercaptole (8CI)
CN   Phenol, 4,4'-(isopropylidenedithio)bis[2,6-di-tert-butyl- (8CI)
OTHER NAMES:
CN   4,4'-(Isopropylidenedithio)bis[2,6-di-tert-butylphenol]
CN   Biphenabid
CN   Bisbid
CN   Bisphenabid
CN   DH 581
CN   Lipomal
CN   Lorelco
CN   Lurselle
CN   NSC 652160
CN   NSC 86225
```

CN Panavir
CN Phenbutol
CN Probucol
CN Sinlestal
FS 3D CONCORD
MF C31 H48 O2 S2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*, PHAR, PROMT, PROUSDDR, PS, RTECS*, SCISEARCH, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)



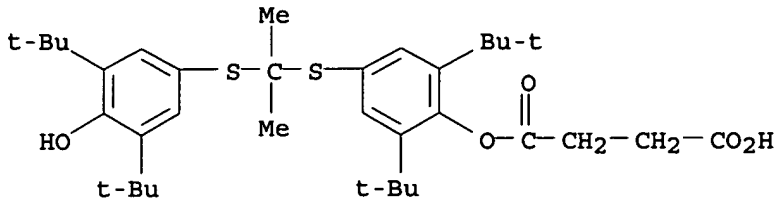
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1196 REFERENCES IN FILE CA (1907 TO DATE)
27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1198 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e5
L2 1 "PROBUCOL MONOSUCCINATE"/CN

=> d l2

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 216167-82-7 REGISTRY
ED Entered STN: 29 Dec 1998
CN Butanedioic acid, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN AGI 1067
CN Probucol monosuccinate
CN Succinobucol
FS 3D CONCORD
MF C35 H52 O5 S2
CI COM
SR CA
LC STN Files: ADISINSIGHT, BIOSIS, CA, CAPLUS, CASREACT, EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, PROUSDDR, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

32 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
32 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    14.64      14.85

FILE 'CAPLUS' ENTERED AT 14:08:13 ON 29 AUG 2006
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FILE COVERS 1907 - 29 Aug 2006  VOL 145 ISS 10
FILE LAST UPDATED: 28 Aug 2006  (20060828/ED)

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http://www.cas.org/infopolicy.html

=> d his

     (FILE 'HOME' ENTERED AT 14:06:24 ON 29 AUG 2006)

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               E PROBUCOL/CN
L1             1 E3
L2             1 E5

     FILE 'CAPLUS' ENTERED AT 14:08:13 ON 29 AUG 2006

=> l1
L3         1198 L1

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ANSWER SET L3 HAS BEEN SAVED AS 'PROBUCOLS/A'

=> l2
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L4          32 L2

=> save temp l4 probucsucc/a
ANSWER SET L4 HAS BEEN SAVED AS 'PROBUCSUCC/A'

=> l2/prep
            32 L2
       3518443 PREP/RL
L5            7 L2/PREP
                  (L2 (L) PREP/RL)

=> base
ENTER A FILE NAME OR (HOME):end

=> search base
        676150 BASE
        153063 BASES
L6      769298 BASE
                  (BASE OR BASES)

=> l5 and l6
L7            0 L5 AND L6

=> d l5 1-7 ti

L5   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Process for preparing esters of probucol and derivatives thereof using
     acid anhydrides in the presence of DBU or DBN.

L5   ANSWER 2 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Process for preparation of probucol derivatives

L5   ANSWER 3 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Process of preparing esters and ethers of probucol and derivatives thereof

L5   ANSWER 4 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Methods of reversing and preventing cardiovascular pathologies

L5   ANSWER 5 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Probucol monoesters for increasing levels and improving functionality of
     plasma HDL cholesterol

L5   ANSWER 6 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Process for preparing water-soluble probucol acyl esters for use as food
     antioxidants

L5   ANSWER 7 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Preparation of phenolic compounds for the inhibition of the expression of
     VCAM-1


=> d l5 1-7 ti fbib abs

L5   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Process for preparing esters of probucol and derivatives thereof using
     acid anhydrides in the presence of DBU or DBN.
AN   2005:1170583  CAPLUS
DN   143:440071
TI   Process for preparing esters of probucol and derivatives thereof using
     acid anhydrides in the presence of DBU or DBN.
IN   Weingarten, David M.
PA   Atherogenics, Inc., USA
SO   PCT Int. Appl., 68 pp.
     CODEN: PIXXD2
DT   Patent
```

LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005102323	A2	20051103	WO 2005-US13394	20050420
WO 2005102323	A3	20051215		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

			US 2004-564267P	P 20040420
US 2005267187	A1	20051201	US 2005-111194	20050420
			US 2004-564267P	P 20040420

OS MARPAT 143:440071
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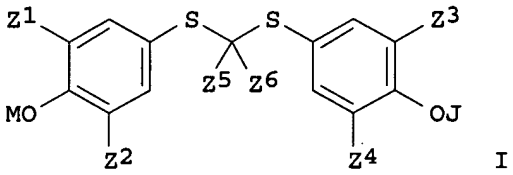

I

AB Title compds. [I; Z1-Z4 = H, (substituted) alkyl; Z5, Z6 = (substituted) alkyl, alkenyl, aryl; Z5Z6 = atoms to form a carbocyclic ring; M = H, (substituted) (unsatd.) acyl; J = (substituted) (unsatd.) acyl], were prepared by reaction of I (M, J = H; other variables as above) with (substituted) (unsatd.) acyl halides, carboxylic acid anhydrides, or carboxylic acid esters in the presence of R1R3NCY(:NR4) (Y = R2, NR2R5; R1-R5 = (substituted) alkyl, alkenyl; R1R2, R3R4 = atoms to form rings). Thus, probucol, succinic anhydride, and DBU were stirred in MeCN at 50° for 1 h to give a mixture comprising probucol monosuccinate 49 weight%, probucol disuccinate 18 weight%, and probucol 33 weight%.

L5 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for preparation of probucol derivatives
AN 2005:1103383 CAPLUS
DN 143:392944
TI Process for preparation of probucol derivatives
IN Jass, Paul Alan; Douglas, Jason Scott
PA USA
SO U.S. Pat. Appl. Publ., 5 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2005228192	A1	20051013	US 2004-821426	20040409
WO 2005102985	A1	20051103	WO 2004-US21336	20040702

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

US 2004-821426 A 20040409

OS MARPAT 143:392944

AB A method is described for the preparation of polymorphic forms of water-soluble derivs. of probucol compds. (Markush structure is given). Probucol was reacted with succinic anhydride to obtain mono-, and di-succinylated probucol derivs. which were separated and purified.

L5 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process of preparing esters and ethers of probucol and derivatives thereof

AN 2004:610066 CAPLUS

DN 141:156929

TI Process of preparing esters and ethers of probucol and derivatives thereof

IN Weingarten, M. David; Sikorski, James A.

PA Atherogenics, Inc., USA

SO PCT Int. Appl., 136 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004062622	A2	20040729	WO 2004-US805	20040113
	WO 2004062622	A3	20041202		
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				US 2003-439665P	P 20030113
	AU 2004204824	A1	20040729	AU 2004-204824	20040113
				US 2003-439665P	P 20030113
				WO 2004-US805	W 20040113
	CA 2512980	AA	20040729	CA 2004-2512980	20040113
				US 2003-439665P	P 20030113
				WO 2004-US805	W 20040113
	US 2004204485	A1	20041014	US 2004-757664	20040113
				US 2003-439665P	P 20030113
	EP 1594824	A2	20051116	EP 2004-701812	20040113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
				US 2003-439665P	P 20030113
				WO 2004-US805	W 20040113
	BR 2004006738	A	20051220	BR 2004-6738	20040113
				US 2003-439665P	P 20030113
				WO 2004-US805	W 20040113
	CN 1759084	A	20060412	CN 2004-80006265	20040113
				US 2003-439665P	P 20030113
	JP 2006516569	T2	20060706	JP 2006-500935	20040113
				US 2003-439665P	P 20030113
				WO 2004-US805	W 20040113

OS MARPAT 141:156929

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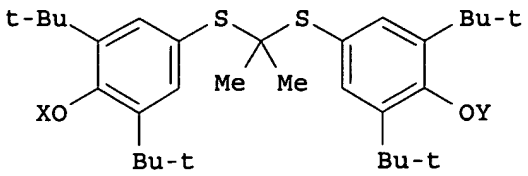

I

AB Probucol or a probucol derivative can be efficiently converted to a monoester or monoether of probucol (I) [wherein R1-R4 = H, (un)substituted alkyl; R5, R6 = each (un)substituted alkyl, alkenyl, or aryl; or R5 and R6 can come together to form a carbocyclic ring; X, Y = H, optionally substituted (un)saturated acyl having from 1 to 18 carbon atoms each optionally containing a polar or charged functionality] by reacting the free hydroxyl-containing probucol or a derivative thereof (by which is meant a probucol compound with at least one substituent that is different from that on the parent probucol mol. but which maintains the two free hydroxyl groups), i.e., I (X = Y = H; R1-R6 = same as above), with a Grignard reagent or a lithium reagent that produces a magnesium bromide or lithium salt of probucol or the probucol derivative The probucol compound anion is then reacted with an ester or ether forming compound Thus, in a dry 25 mL 3-neck round bottom flask fitted with a reflux condenser, nitrogen inlet, thermocouple and stir bar was charged probucol (0.25 g, 0.48 mmol) followed by 2.5 mL anhydrous toluene and then isopropylmagnesium chloride (0.51 mL, 2.0 M in THF) in 1 portion. The reaction was brought to room temperature and then succinic anhydride (0.25 g, 2.5 mmol) was added in 1 portion. After aging for 45 min, the reaction was slowly quenched with 1 N HCl and diluted with EtOAc. The biphasic reaction was then cooled to room temperature and the phases were separated to give an organic layer containing 60% probucol monosuccinate, 13% probucol disuccinate, and 27% probucol according to HPLC anal.

L5 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI Methods of reversing and preventing cardiovascular pathologies
AN 2003:376540 CAPLUS
DN 138:362685
TI Methods of reversing and preventing cardiovascular pathologies
IN Glass, Mitchell; Tardif, Jean-Claude
PA Atherogenics, Inc., USA
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003039352	A2	20030515	WO 2002-US37274	20021112
	WO 2003039352	A3	20031023		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	CA 2466081	AA	20030515	CA 2002-2466081	20021112
				US 2001-347778P	P 20011109

				WO 2002-US37274	W	20021112
US 2003181520		A1	20030925	US 2002-293399		20021112
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EP 1451138		A2	20040901	EP 2002-789782		20021112
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				WO 2002-US37274	W	20021112
CN 1612855		A	20050504	CN 2002-826999		20021112
				US 2001-347778P	P	20011109
JP 2006506314		T2	20060223	JP 2003-541450		20021112
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OS MARPAT 138:362685
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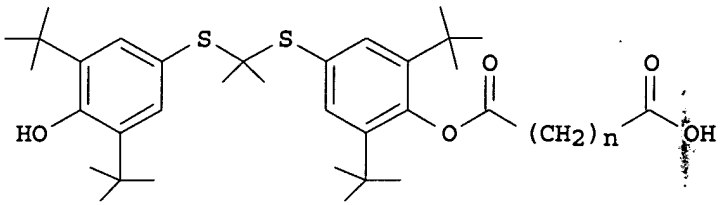

I

AB The present invention is a method to increase the lumen diameter of a coronary blood vessel, that includes administering a lumen increasing amount of a compound of the formula I wherein x is defined as an integer between 1 and 4; or a pharmaceutically acceptable salt, ester or prodrug thereof.

L5 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI Probucol monoesters for increasing levels and improving functionality of plasma HDL cholesterol
AN 2002:849415 CAPLUS
DN 137:333157
TI Probucol monoesters for increasing levels and improving functionality of plasma HDL cholesterol
IN Luchoomun, Jayraz; Saxena, Uday; Sundell, Cynthia L.; Sikorski, James A.
PA Atherogenics, Inc., USA
SO PCT Int. Appl., 161 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002087556	A2	20021107	WO 2002-US12678	20020411
WO 2002087556	A3	20030206		
WO 2002087556	C2	20030320		
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				US 2001-345025P	P 20011109
				WO 2002-US12678	W 20020411
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				US 2001-345025P	P 20011109
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	US 2003064967	A1	20030403	US 2002-122516	20020411
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				US 2001-283376P	P 20010411
				US 2001-345025P	P 20011109
				US 2002-122516	A1 20020411

OS MARPAT 137:333157

AB It has been discovered that certain selected probucol monoesters, and their pharmaceutically acceptable salts or prodrugs, are useful for increasing circulating HDL cholesterol. These compds. may also improve HDL functionality by (a) increasing clearance of cholesteryl esters, (b) increasing HDL-particle affinity for hepatic cell surface receptors, or (c) increasing the half-life of apoAI-HDL. The pharmaceutical compns. comprise probucol monoesters alone or in combination with other agents, e.g, statins, IBAT inhibitors, MTP inhibitors, cholesterol absorption inhibitors, phytosterols, CETP inhibitors, fibric acid derivs., and antihypertensive agents. For example, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl]ester of pentanedioic acid, prepared from probucol and glutaric anhydride, elevated HDLc in hyperlipidemic hamster by 22% (average of 3 expts., range 5-44%), compared to untreated controls after 2 wk treatment at a dose of 150 mg/kg/day. LDLc was reduced by 29% on average, VLDL cholesterol by 42%, and triglycerides by 24%, compared to controls. The compound was well tolerated and all animals gained weight

L5 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for preparing water-soluble probucol acyl esters for use as food antioxidants

AN 2001:863541 CAPLUS

DN 135:371524

TI Process for preparing water-soluble probucol acyl esters for use as food antioxidants

IN Jass, Paul Alan

PA Salsbury Chemicals, Inc., USA

SO U.S., 5 pp.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6323359	B1	20011127	US 2000-562657	20000502
				US 2000-562657	20000502

OS CASREACT 135:371524; MARPAT 135:371524

GI

PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

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			EP 1998-922264	A3 19980514
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AT 294158	E	20050515	AT 1998-922264	19980514
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			WO 1998-US9781	W 19980514
IL 157078	A1	20050517	IL 1998-157078	19980514
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ES 2241139	T3	20051016	ES 1998-922264	19980514
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EP 1607089	A1	20051221	EP 2005-76752	19980514
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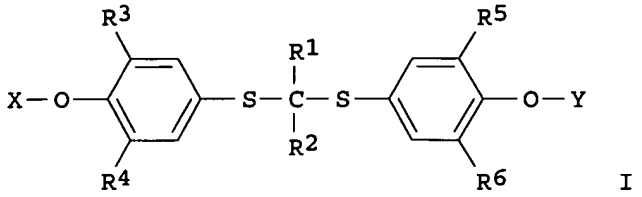

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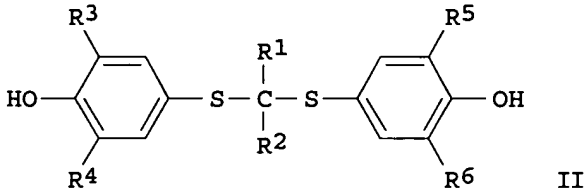

II

AB Water-soluble derivs. of probucol compds. [I; R1, R2 = alkyl, alkenyl, aryl; R3-R6 = C1-4 alkyl; X, Y = H, (un)saturated (un)substituted C1-8 acyl] (e.g., probucol mono- and disuccinate), useful as food antioxidants, are prepared by the reaction of a solution of a probucol compound (II) with an alkali metal hydroxide, alkali metal alkoxide (e.g., potassium tert-butoxide), alkylammonium alkoxide, alkylammonium hydroxide and mixts. forming an ammonium or an alkali metal salt of the probucol compound and reacting the salt with a carboxylic acid anhydride selected from succinic anhydride, glutaric anhydride, adipic anhydride, suberic anhydride, sebacic anhydride, azelaic anhydride, phthalic anhydride, and maleic anhydride.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of phenolic compounds for the inhibition of the expression of VCAM-1
AN 1998:761875 CAPLUS
DN 130:13646
TI Preparation of phenolic compounds for the inhibition of the expression of VCAM-1
IN Medford, Russell M.; Somers, Patricia K.; Hoong, Lee K.; Meng, Charles Q.
PA Atherogenics, Inc., USA
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9851662	A2	19981119	WO 1998-US9781	19980514
	WO 9851662	A3	20000302		

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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

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PATENT FAMILY INFORMATION:

FAN 1998:761806

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FAN 2001:713364

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
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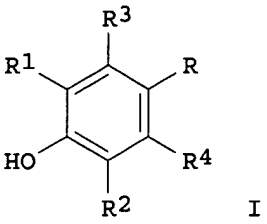
OS MARPAT 130:13646
GI



I

AB Title compds. [e.g., I; R = Z1Z2R5; R1,R2 = (un)substituted (cyclo)alkyl, -(hetero)aryl, etc.; R3,R4 = any group that does not otherwise adversely affect (sic) the desired properties of the mol. including H, halogen, or R1 (sic); R5 = (di)(alkyl)amino, alkyl, alkoxy(carbonyl), (hetero)aryl, etc.; Z1 = O SO0-2, NH, CH2; Z2 = bond, alkylene(oxy) aryleneoxy, etc.] were prepared Thus, 4-(BrCH2)C6H4CH2CO2H was thioetherified by 4-mercapto-2,6-di-tert-butylphenol to give I [R = SCH2C6H4(CH2CO2H)-4, R1 = R2 = CMe3, R3 = R4 = H]. Data for biol. activity of I were given.

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        116016 PHENOLS
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=> bisphenol
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=> grignard
         43179 GRIGNARD
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                 (GRIGNARD OR GRIGNARDS)

=> l10 and l11
L12         32 L10 AND L11

=> l10(l)l11
L13         13 L10(L)L11

=> d l13 1-13 ti

L13  ANSWER 1 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Advances in nanocontact molding for the patterning of polythiophene

L13  ANSWER 2 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Manufacture of a N-heterocyclic-substituted poly(aryl ether sulfone)

L13  ANSWER 3 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Manufacture of functionalized polyaryl ether sulfones via bromination

L13  ANSWER 4 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Dialkyl titanium complexes that contain a sulfur-linked bis(phenolato)
     ligand: the structure of an olefin polymerization catalyst precursor

L13  ANSWER 5 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   New bisphenols with silylene fragments: synthesis and spectra

L13  ANSWER 6 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Photochromic heterocyclic fused indenonaphthopyrans

L13  ANSWER 7 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Knots for Molecular Strings of Beads

L13  ANSWER 8 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Thermal printing materials

L13  ANSWER 9 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   3,3-Bis(2,2-diphenylvinyl)phthalides as leuco dyes and recording materials
     containing them

L13  ANSWER 10 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Catalysts for manufacture of olefin random copolymers

L13  ANSWER 11 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Recording material

L13  ANSWER 12 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Products of the thermal degradation of the adduct of bisphenol A
     diglycidyl ether and p,p'-diaminodiphenylmethane

L13  ANSWER 13 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Linear polycondensates of triazine monomers


=> monosub?
L14      10656 MONOSUB?

=> l10 and l14
L15         20 L10 AND L14

=> l12 and l15
```

L16 0 L12 AND L15

=> d l15 10-20 ti

L15 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Thermotropic liquid-crystalline aromatic polyesters

L15 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI A comparison of spin relaxation and local motion between symmetrically and asymmetrically ring-substituted bisphenol units in dissolved polycarbonates

L15 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Poly(2-aminoalkyl)polyamines

L15 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Correlation analysis of polycondensation processes

L15 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Oxidation of bisphenols. II. Some compounds related to galvinoxyl

L15 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis of mixed phosphites and study of their inhibiting action against the oxidative thermal aging of low-density polyethylene

L15 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis and study of sterically hindered bisphenols as light stabilizers of polyethylene

L15 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Carboxy copolymers prepared in 1,2-epoxy compounds

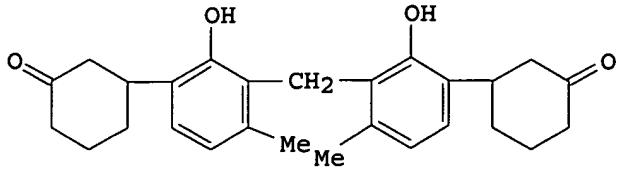
L15 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Lubricating oil compositions

L15 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Stabilizing agents to inhibit the degradation of poly-α-olefins by light and heat

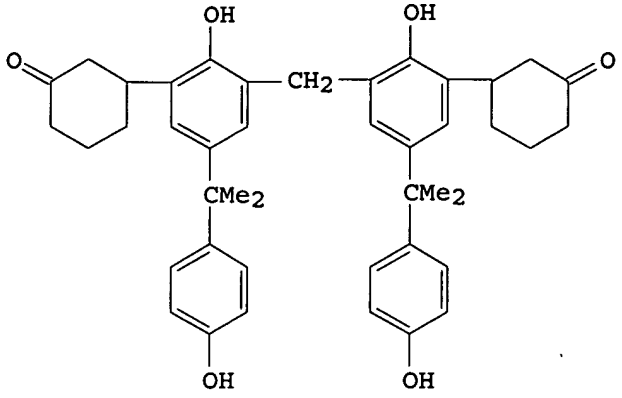
L15 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Derivatives of triphenylphosphine and triphenylphosphine oxide

=> d l15 16 ti fbib abs

L15 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis and study of sterically hindered bisphenols as light stabilizers of polyethylene
AN 1978:510890 CAPLUS
DN 89:110890
TI Synthesis and study of sterically hindered bisphenols as light stabilizers of polyethylene
AU Naumova, S. F.; Balykina, M. V.; Akulich, Z. I.; Velikanova, L. V.; Bolbotunova, T. N.
CS Inst. Fiz.-Org. Khim., Minsk, USSR
SO Doklady Akademii Nauk BSSR (1978), 22(5), 437-9
CODEN: DBLRAC; ISSN: 0002-354X
DT Journal
LA Russian
GI



I



II

AB The title bisphenols I [67013-77-8] and II [67066-61-9] were prepared by alkylation with 2-cyclohexen-1-one [930-68-7] of m-cresol [108-39-4] and 2,2-bis(4-hydroxyphenyl)propane [80-05-7], resp., and condensation of the resulting monosubstituted products with HCHO [50-00-0]. Tests in low-d. polyethylene [9002-88-4] indicated that I and II were as effective light stabilizers as Benzon OA (2-hydroxy-4-alkoxybenzophenone). I and II, by being solid (m.p. 50-5 and 65-70°, resp.), offered advantages over liquid Benzon OA.

```
=> d his

     (FILE 'HOME' ENTERED AT 14:06:24 ON 29 AUG 2006)

     FILE 'REGISTRY' ENTERED AT 14:06:39 ON 29 AUG 2006
                E PROBUCOL/CN
L1              1 E3
L2              1 E5

     FILE 'CAPLUS' ENTERED AT 14:08:13 ON 29 AUG 2006
L3           1198 L1
                SAVE TEMP L3 PROBUCOLS/A
L4             32 L2
                SAVE TEMP L4 PROBUCSUCC/A
L5              7 L2/PREP
L6         769298 SEARCH BASE
L7              0 L5 AND L6
L8         302679 PHENOL
L9              0 BISPHENOLO
L10         72881 BISPHENOL
L11         43342 GRIGNARD
L12            32 L10 AND L11
L13            13 L10(L)L11
L14         10656 MONOSUB?
L15            20 L10 AND L14
L16             0 L12 AND L15

=> save temp all mysrch/l
L# LIST L1-L16 HAS BEEN SAVED AS 'MYSRCH/L'

=> l3 and l11
```

```
L17          1 L3 AND L11

=> d l17

L17  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:610066  CAPLUS
DN   141:156929
TI   Process of preparing esters and ethers of probucol and derivatives thereof
IN   Weingarten, M. David; Sikorski, James A.
PA   Atherogenics, Inc., USA
SO   PCT Int. Appl., 136 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
PI   WO 2004062622         A2    20040729    WO 2004-US805           20040113
     WO 2004062622         A3    20041202
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ
     AU 2004204824         A1    20040729    AU 2004-204824          20040113
     CA 2512980            AA    20040729    CA 2004-2512980         20040113
     US 2004204485         A1    20041014    US 2004-757664          20040113
     EP 1594824            A2    20051116    EP 2004-701812          20040113
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     BR 2004006738         A     20051220    BR 2004-6738            20040113
     CN 1759084            A     20060412    CN 2004-80006265        20040113
     JP 2006516569         T2    20060706    JP 2006-500935          20040113
PRAI US 2003-439665P       P     20030113
     WO 2004-US805         W     20040113
OS   MARPAT 141:156929


=> l8 (l) l11
L18        364 L8 (L) L11

=> butoxide
         12148 BUTOXIDE
           259 BUTOXIDES
L19      12253 BUTOXIDE
                 (BUTOXIDE OR BUTOXIDES)

=> l18 (l) l19
L20          0 L18 (L) L19

=> l18 and l19
L21          1 L18 AND L19

=> d l21

L21  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1979:186581  CAPLUS
DN   90:186581
TI   Hydroxyalkyl- and oxoalkyl-substituted phenols
IN   Althuis, Thomas Henry; Harbert, Charles Armon; Johnson, Michael Ross;
     Melvin, Lawrence Sherman, Jr.
PA   Pfizer Inc., USA
SO   Ger. Offen., 54 pp.
     CODEN: GWXXBX
DT   Patent
LA   German
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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2839884	A1	19790315	DE 1978-2839884	19780913
	DE 2839884	C2	19821125		
	US 4283569	A	19810811	US 1977-832868	19770913
	JP 54048728	A2	19790417	JP 1978-111620	19780911
	JP 56043450	B4	19811013		
	BE 870402	A1	19790312	BE 1978-190417	19780912
	DK 7804011	A	19790314	DK 1978-4011	19780912
	NL 7809270	A	19790315	NL 1978-9270	19780912
	FR 2402640	A1	19790406	FR 1978-26122	19780912
	FR 2402640	B1	19810227		
	GB 2005257	A	19790419	GB 1978-36417	19780912
	GB 2005257	B2	19820526		
	US 4284829	A	19810818	US 1978-972595	19781222
	JP 56045437	A2	19810425	JP 1980-85032	19800623
	JP 59011571	B4	19840316		
	NL 8007036	A	19810331	NL 1980-7036	19801224
PRAI	US 1977-832868	A	19770913		

OS CASREACT 90:186581

=>
=> save temp all mysrch/l
'MYSRCH/L' IN USE
A single name cannot be used for two saved items at the same time.
Enter "Y" if you wish to replace the current saved name with a new
definition. Enter "N" if the current saved definition must be
preserved. You may then reenter the SAVE command with a different
saved name. Enter "DISPLAY SAVED" at an arrow prompt (=>) to see a
list of your currently defined saved names.
REPLACE OLD DEFINITION? Y/(N):y
L# LIST L1-L21 HAS BEEN SAVED AS 'MYSRCH/L'

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	87.16	102.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.00	-6.00

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:47:34 ON 29 AUG 2006

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LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006

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 NEWS  4  APR 04  STN AnaVist $500 visualization usage credit offered
 NEWS  5  MAY 10  CA/CAplus enhanced with 1900-1906 U.S. patent records
 NEWS  6  MAY 11  KOREAPAT updates resume
 NEWS  7  MAY 19  Derwent World Patents Index to be reloaded and enhanced
 NEWS  8  MAY 30  IPC 8 Rolled-up Core codes added to CA/CAplus and
                  USPATFULL/USPAT2
 NEWS  9  MAY 30  The F-Term thesaurus is now available in CA/CAplus
 NEWS 10  JUN 02  The first reclassification of IPC codes now complete in
                  INPADOC
 NEWS 11  JUN 26  TULSA/TULSA2 reloaded and enhanced with new search and
                  and display fields
 NEWS 12  JUN 28  Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 13  JUl 11  CHEMSAFE reloaded and enhanced
 NEWS 14  JUl 14  FSTA enhanced with Japanese patents
 NEWS 15  JUl 19  Coverage of Research Disclosure reinstated in DWPI
 NEWS 16  AUG 09  INSPEC enhanced with 1898-1968 archive
 NEWS 17  AUG 28  ADISCTI Reloaded and Enhanced

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8
 NEWS X25      X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
specific topic.

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FILE 'HOME' ENTERED AT 07:14:09 ON 30 AUG 2006

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.42       0.42

FILE 'REGISTRY' ENTERED AT 07:15:12 ON 30 AUG 2006
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DICTIONARY FILE UPDATES:  28 AUG 2006  HIGHEST RN 904961-01-9

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
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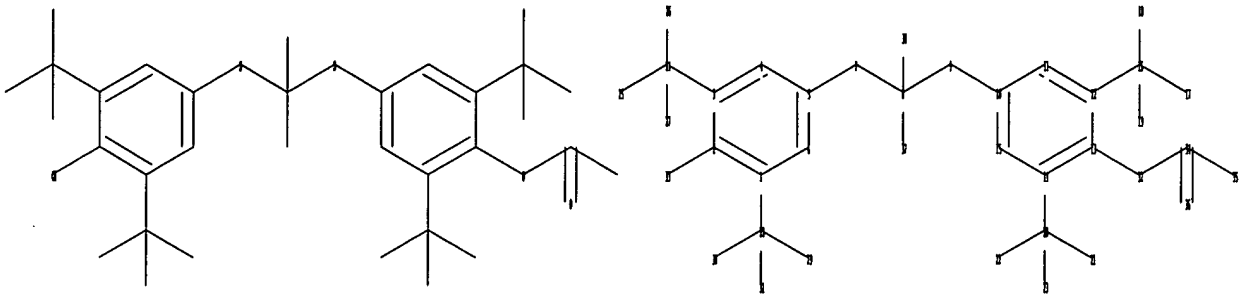
experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10757664\10757664 probucol deriv core.str

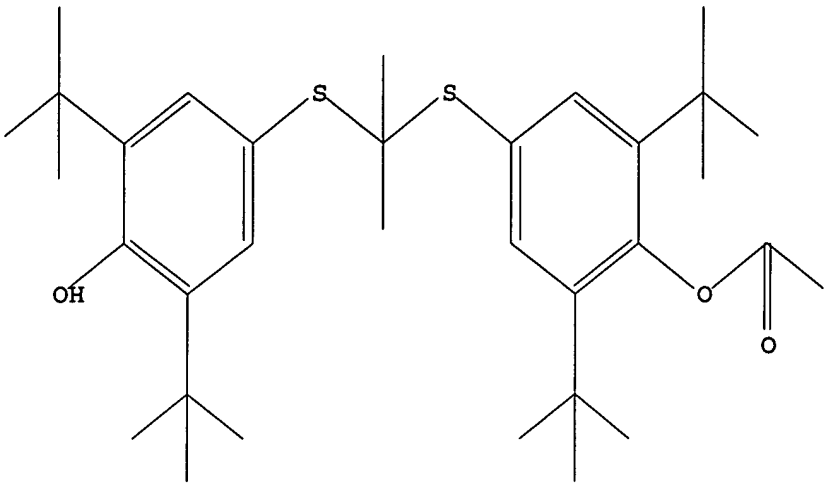


chain nodes :
7 8 9 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38
ring nodes :
1 2 3 4 5 6 10 11 12 13 14 15
chain bonds :
1-28 2-33 3-24 5-7 7-8 8-9 8-37 8-38 9-10 12-16 13-32 14-20 16-17 16-18 16-19 20-21 20-22 20-23 24-25 24-26 24-27 28-29 28-30 28-31 32-34 34-35 34-36
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
2-33 5-7 7-8 8-9 9-10 13-32 32-34 34-36
exact bonds :
1-28 3-24 8-37 8-38 12-16 14-20 16-17 16-18 16-19 20-21 20-22 20-23 24-25 24-26 24-27 28-29 28-30 28-31 34-35
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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=> serch l1 sss sam
COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID
The query entered contains both search terms created by
structure-building or screen commands and text search terms.  L#s
created via the STRUCTURE or SCREEN commands must be searched in the
structures files separately from text terms or profiles.  The L#
answer sets from structure searches can be used in crossover searches
and can be combined with text terms.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 07:15:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       15 TO ITERATE

100.0% PROCESSED       15 ITERATIONS                              3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           68 TO      532
PROJECTED ANSWERS:               3 TO      163

L2            3 SEA SSS SAM L1

=> d scan

L2   3 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN   Butanoic acid, 4-hydroxy-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-
     hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl
     ester (9CI)
MF   C35 H54 O4 S2
```
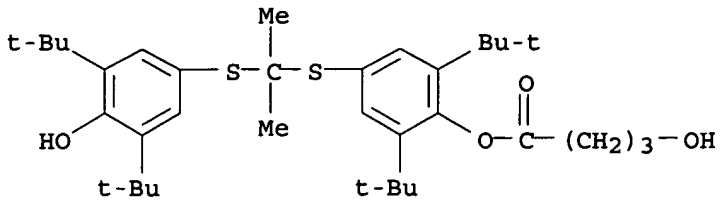
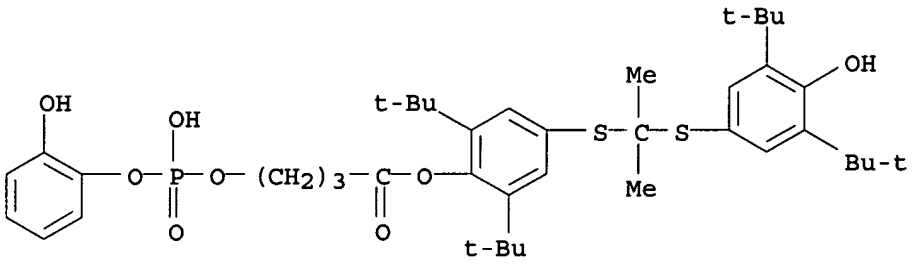



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

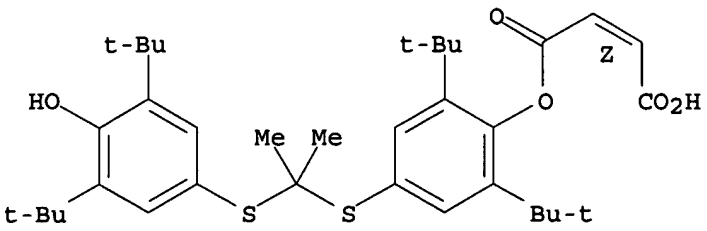
L2 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-[[hydroxy(2-hydroxyphenoxy)phosphinyl]oxy]-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C41 H59 O8 P S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Butenedioic acid (2Z)-, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C35 H50 O5 S2

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l1 sss full
FULL SEARCH INITIATED 07:16:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 260 TO ITERATE

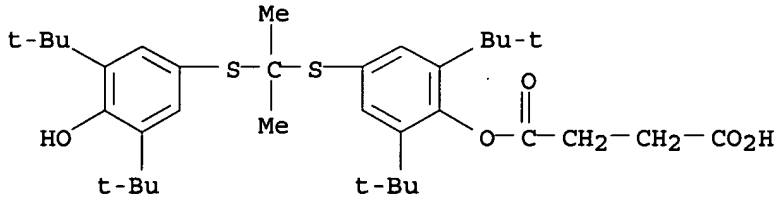
100.0% PROCESSED 260 ITERATIONS 41 ANSWERS
SEARCH TIME: 00.00.02

L3 41 SEA SSS FUL L1

=> d scan

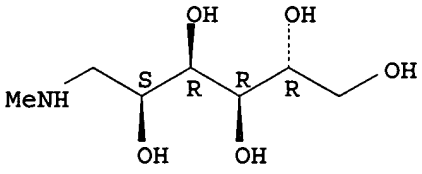
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Glucitol, 1-deoxy-1-(methylamino)-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl butanedioate (salt) (9CI)
MF C35 H52 O5 S2 . C7 H17 N O5

CM 1



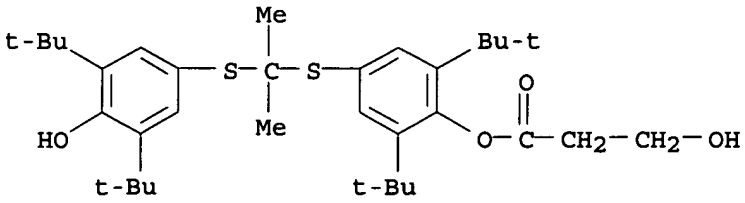
CM 2

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):41

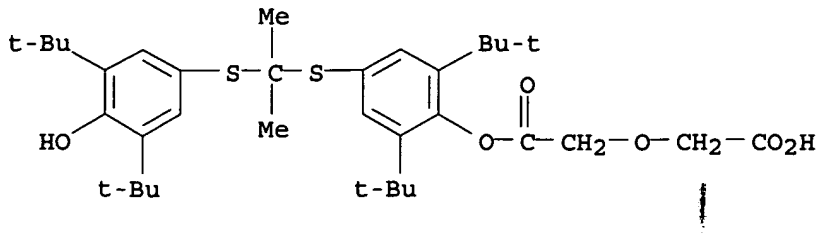
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanoic acid, 3-hydroxy-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C34 H52 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

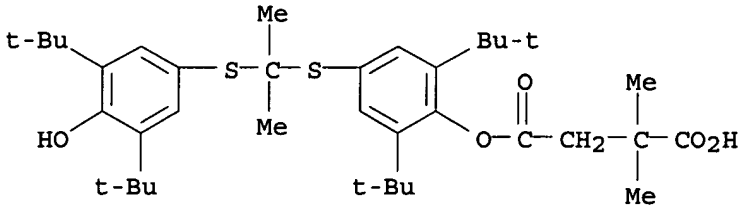
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Acetic acid, [2-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-

1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenoxy]-2-oxoethoxy]- (9CI)
MF C35 H52 O6 S2



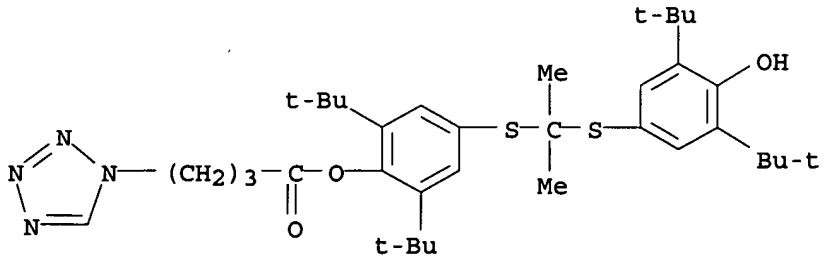
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanedioic acid, 2,2-dimethyl-, 4-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C37 H56 O5 S2



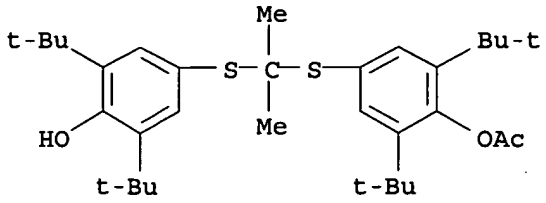
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1H-Tetrazole-1-butanoic acid, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C36 H54 N4 O3 S2



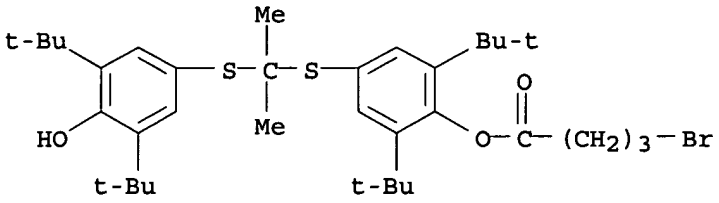
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Phenol, 4-[[1-[[4-(acetyloxy)-3,5-bis(1,1-dimethylethyl)phenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)- (9CI)
MF C33 H50 O3 S2



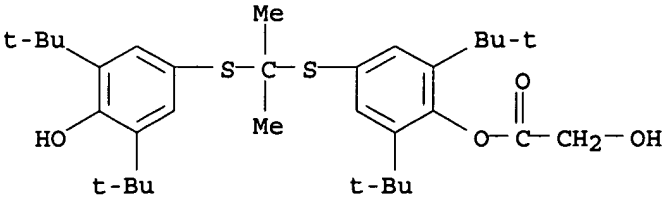
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-bromo-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C35 H53 Br O3 S2



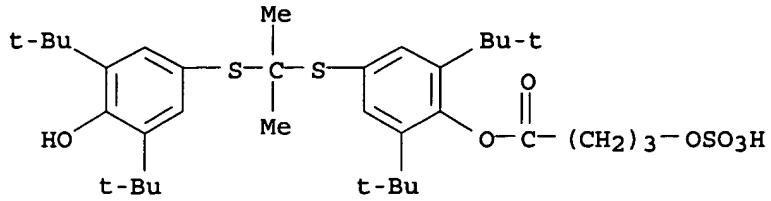
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Acetic acid, hydroxy-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C33 H50 O4 S2



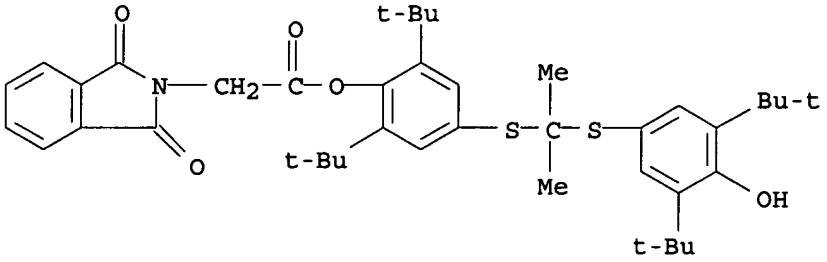
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-(sulfooxy)-, 1-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester, monosodium salt (9CI)
MF C35 H54 O7 S3 . Na



● Na

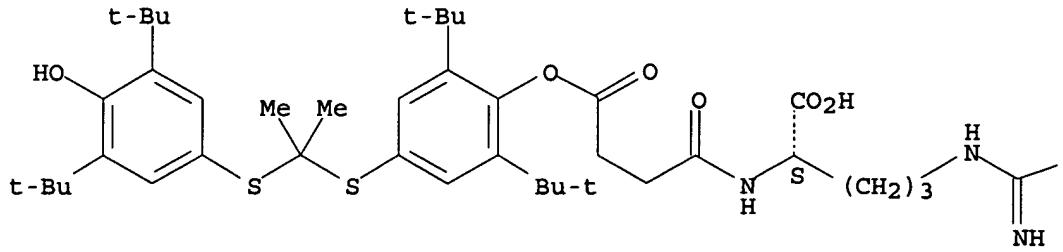
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2H-Isoindole-2-acetic acid, 1,3-dihydro-1,3-dioxo-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C41 H53 N O5 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-Arginine, N2-[4-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenoxy]-1,4-dioxobutyl]- (9CI)
MF C41 H64 N4 O6 S2

Absolute stereochemistry.

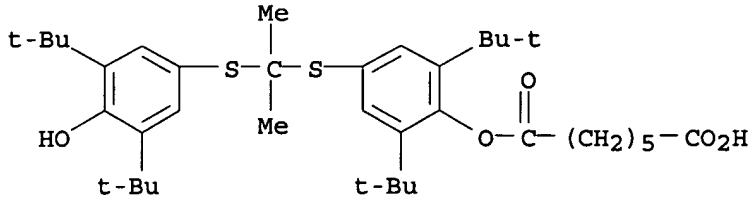


—NH_2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

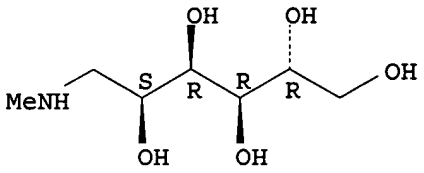
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Glucitol, 1-deoxy-1-(methylamino)-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl heptanedioate (salt) (9CI)
MF C38 H58 O5 S2 . C7 H17 N O5

CM 1

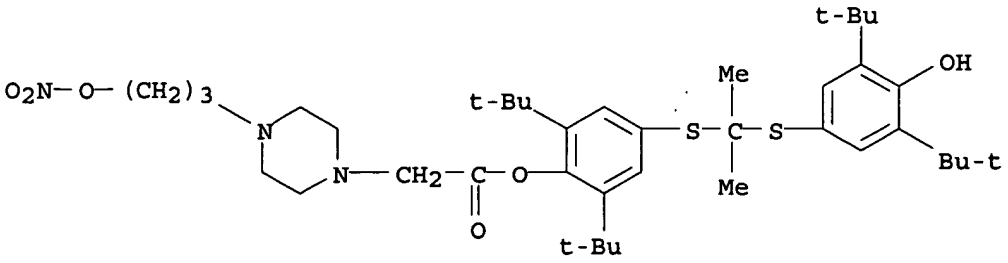


CM 2

Absolute stereochemistry.

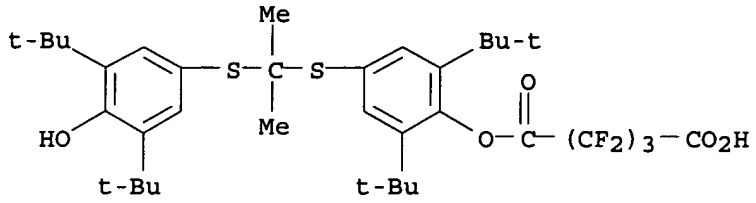


L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Piperazineacetic acid, 4-[3-(nitrooxy)propyl]-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C40 H63 N3 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

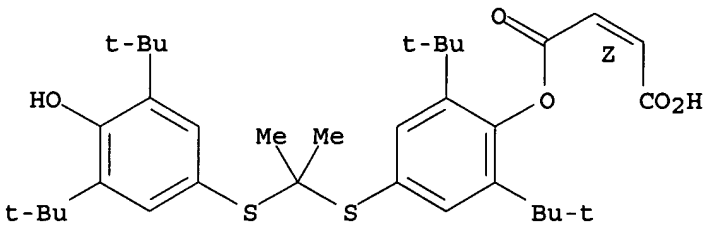
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanedioic acid, hexafluoro-, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C36 H48 F6 O5 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

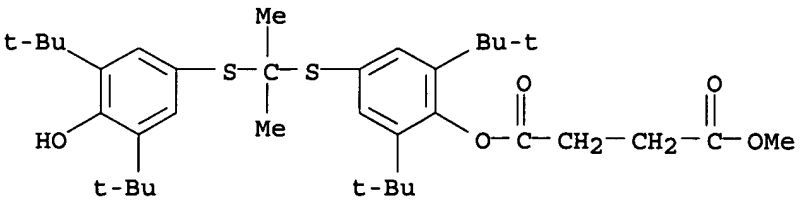
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Butenedioic acid (2Z)-, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C35 H50 O5 S2

Double bond geometry as shown.



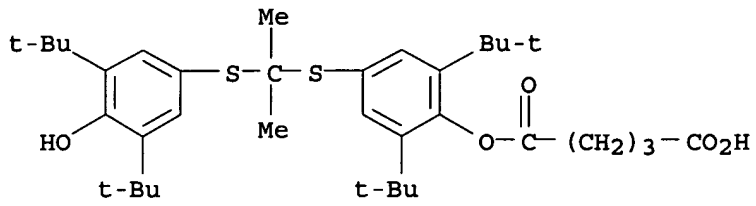
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanedioic acid, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl methyl ester (9CI)
MF C36 H54 O5 S2



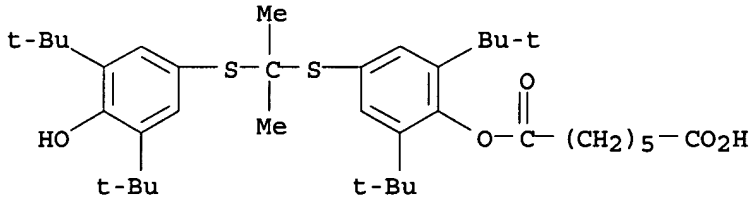
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanedioic acid, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C36 H54 O5 S2
CI COM



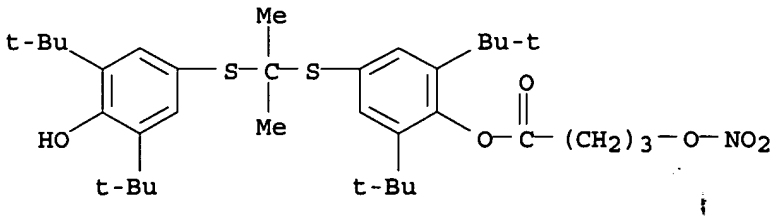
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Heptanedioic acid, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C38 H58 O5 S2
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-(nitrooxy)-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C35 H53 N O6 S2

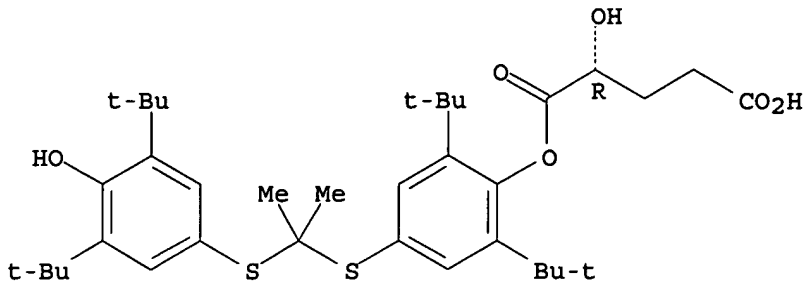


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanedioic acid, 2-hydroxy-, 1-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-

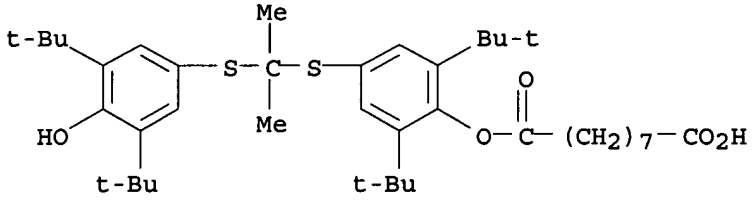
hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester, (2R)- (9CI)
MF C36 H54 O6 S2

Absolute stereochemistry.



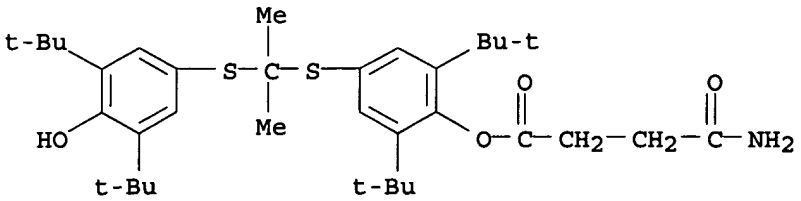
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Nonanedioic acid, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C40 H62 O5 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

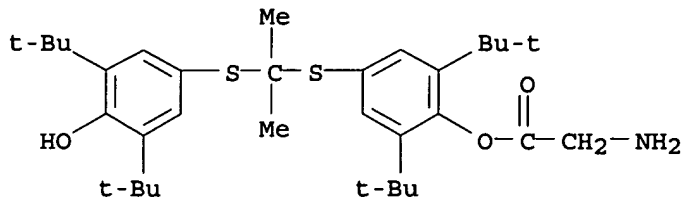
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-amino-4-oxo-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C35 H53 N O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

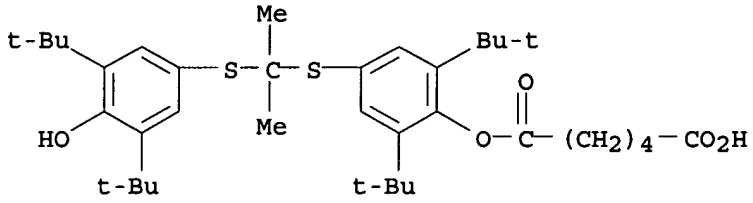
IN Glycine, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C33 H51 N O3 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

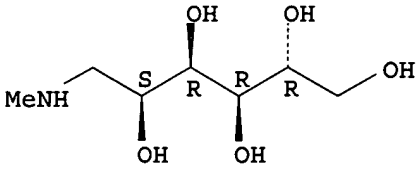
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Glucitol, 1-deoxy-1-(methylamino)-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl hexanedioate (salt) (9CI)
MF C37 H56 O5 S2 . C7 H17 N O5

CM 1

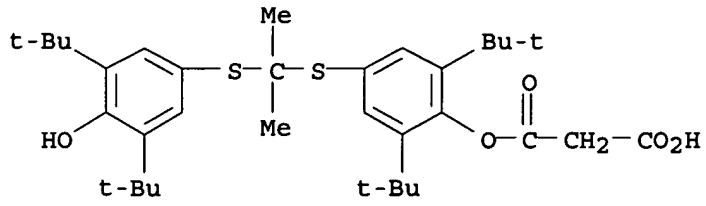


CM 2

Absolute stereochemistry.

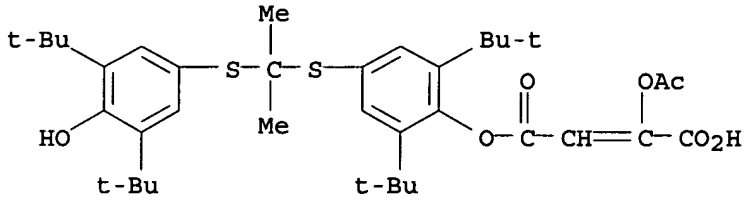


L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C34 H50 O5 S2
CI COM



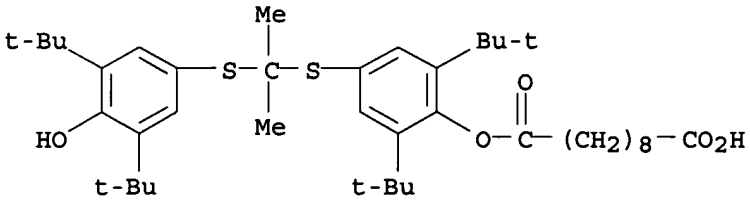
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Butenedioic acid, 2-(acetyloxy)-, 4-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C37 H52 O7 S2



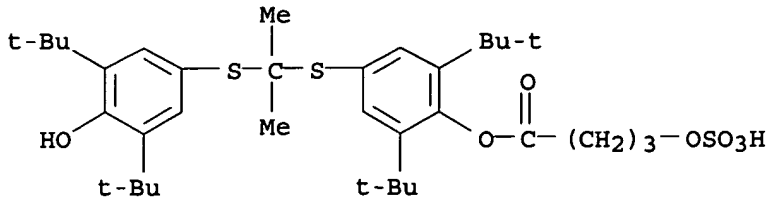
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Decanedioic acid, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C41 H64 O5 S2



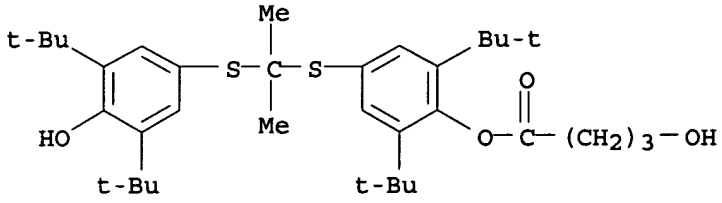
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-(sulfooxy)-, 1-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C35 H54 O7 S3
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

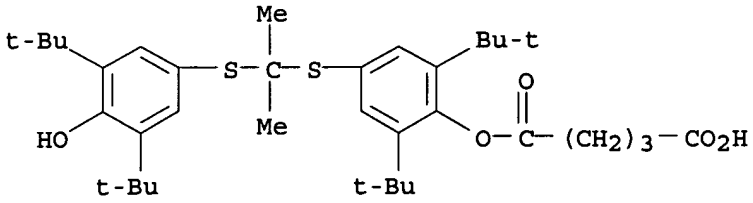
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-hydroxy-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C35 H54 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

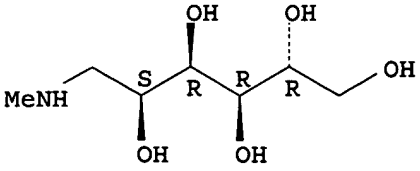
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Glucitol, 1-deoxy-1-(methylamino)-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl pentanedioate (salt) (9CI)
MF C36 H54 O5 S2 . C7 H17 N O5

CM 1

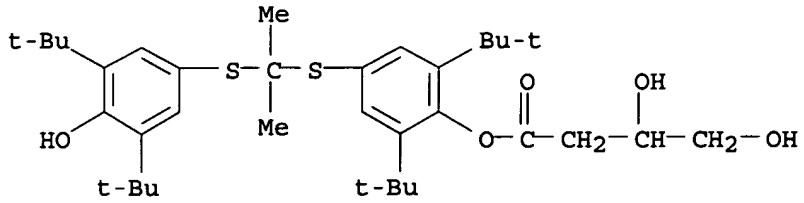


CM 2

Absolute stereochemistry.



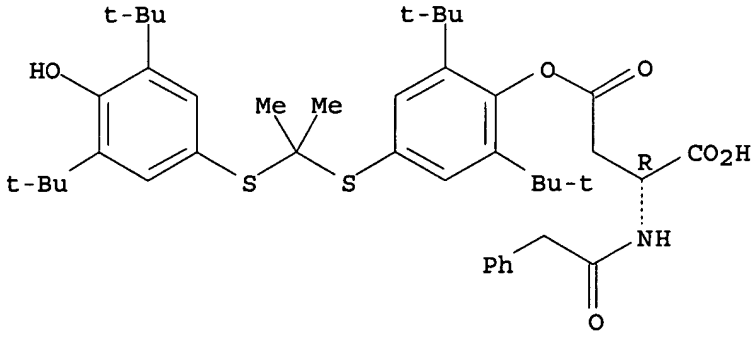
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 3,4-dihydroxy-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C35 H54 O5 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

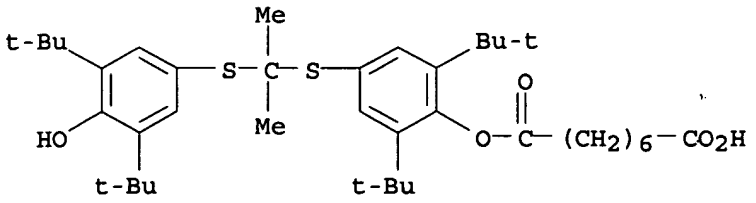
L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Aspartic acid, N-(phenylacetyl)-, 4-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C43 H59 N O6 S2

Absolute stereochemistry.



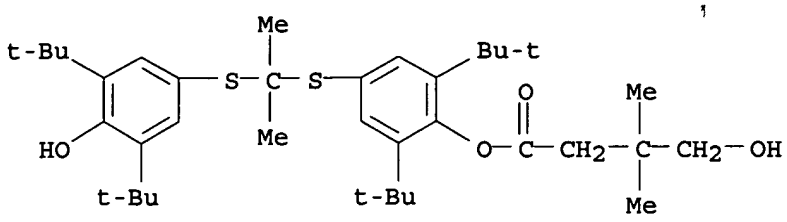
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Octanedioic acid, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
MF C39 H60 O5 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-hydroxy-3,3-dimethyl-, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI)
MF C37 H58 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanedioic acid, mono[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl] ester (9CI)
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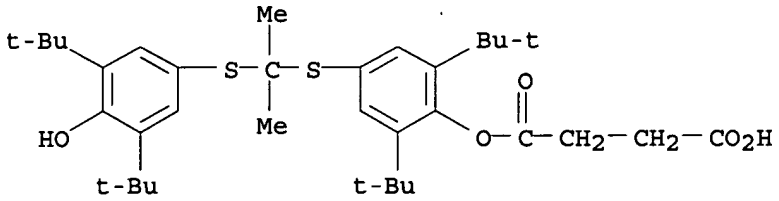
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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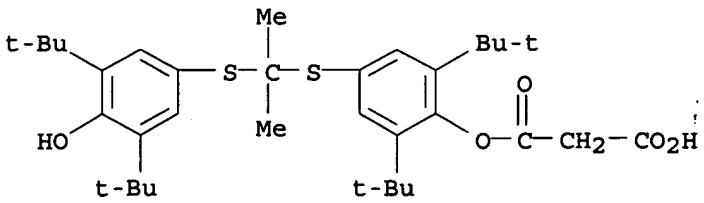
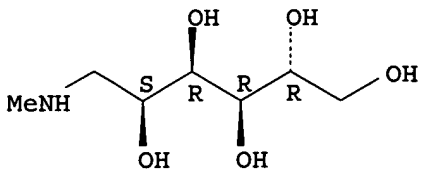
CM 1



CM 2

Absolute stereochemistry.



L3 41 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
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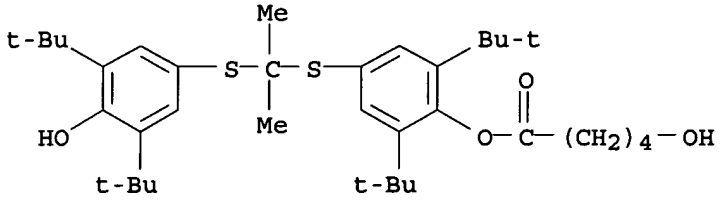

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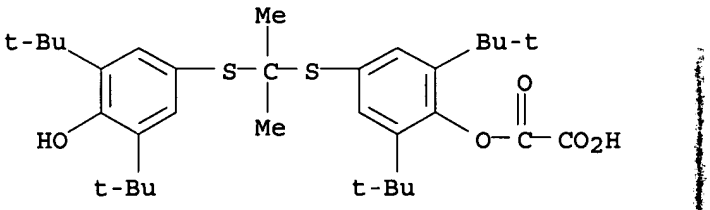

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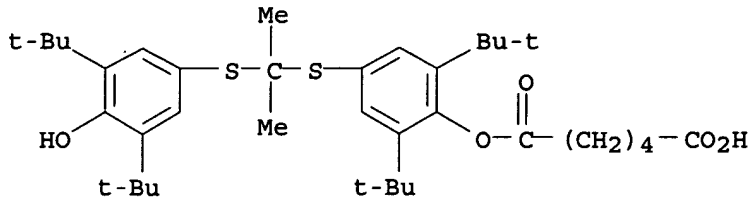

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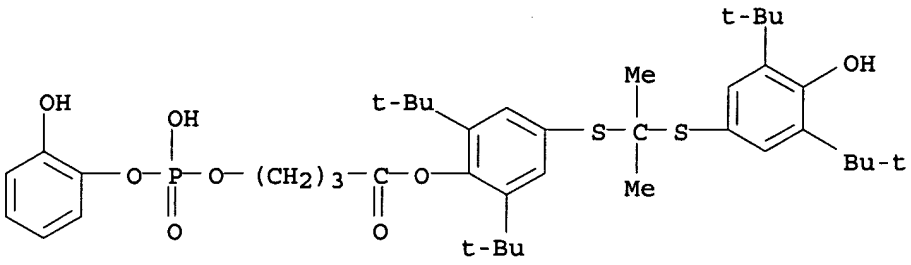

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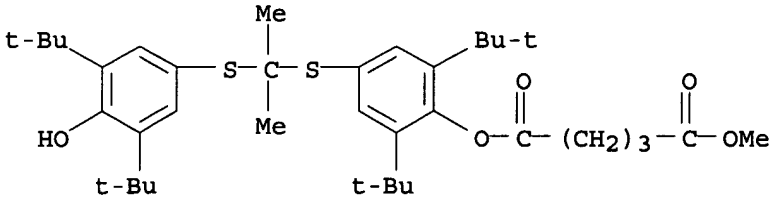

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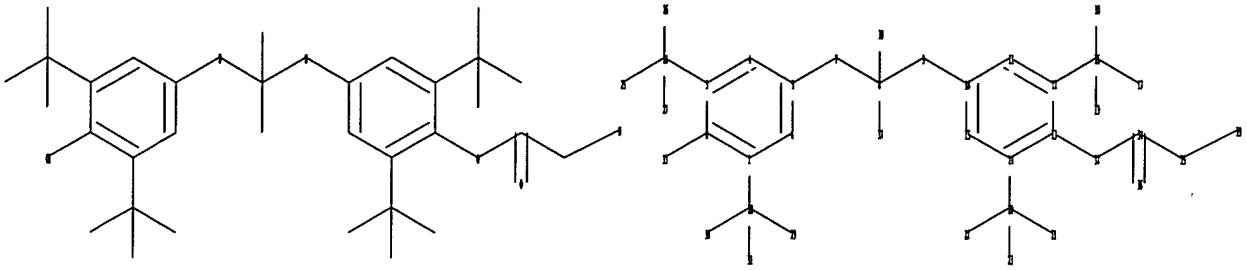

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ring nodes :
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34-35 34-36 35-39
ring bonds :
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exact/norm bonds :
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exact bonds :
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Match level :
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L4 STRUCTURE UPLOADED

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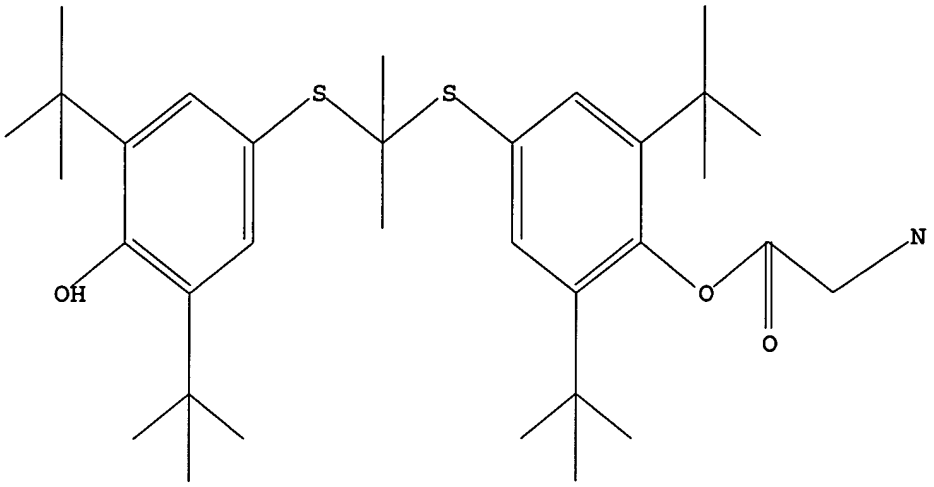

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -       15 TO ITERATE

100.0% PROCESSED       15 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           68 TO      532
PROJECTED ANSWERS:               0 TO        0

L5            0 SEA SSS SAM L4

=> search l4 sss full
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100.0% PROCESSED      260 ITERATIONS                              1 ANSWERS
SEARCH TIME: 00.00.04

L6            1 SEA SSS FUL L4

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IN   Glycine, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-
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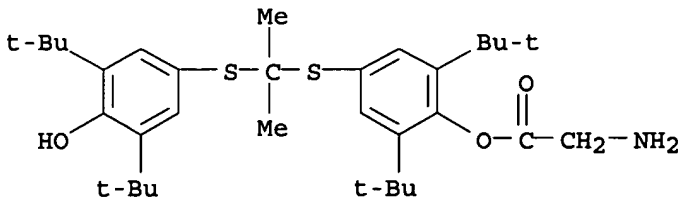

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 216167-93-0 REGISTRY
ED Entered STN: 29 Dec 1998
CN Glycine, 4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenyl ester (9CI) (CA INDEX NAME)
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SR CA
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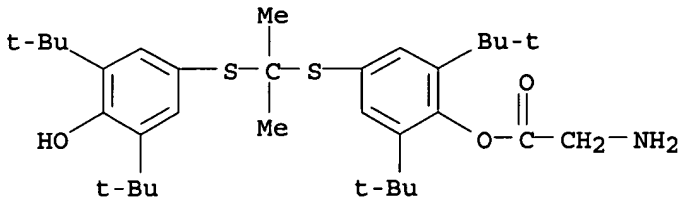

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	341.50	341.92

FILE 'CAPLUS' ENTERED AT 07:24:28 ON 30 AUG 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 30 Aug 2006 VOL 145 ISS 10
FILE LAST UPDATED: 29 Aug 2006 (20060829/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

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       3519114 PREP/RL
L7           1 L6/PREP
                 (L6 (L) PREP/RL)

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AN   1998:761875  CAPLUS
DN   130:13646
TI   Preparation of phenolic compounds for the inhibition of the expression of
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IN   Medford, Russell M.; Somers, Patricia K.; Hoong, Lee K.; Meng, Charles Q.
PA   Atherogenics, Inc., USA
SO   PCT Int. Appl., 109 pp.
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DT   Patent
LA   English
FAN.CNT 4
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PATENT FAMILY INFORMATION:

FAN 1998:761806

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FAN 2001:713364

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PI	WO 2001070757	A2	20010927	WO 2001-US9049		20010321
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

				US 2000-191046P	P	20000321
	CA 2403823	AA	20010927	CA 2001-2403823		20010321
				US 2000-191046P	P	20000321
				WO 2001-US9049	W	20010321
	EP 1289944	A2	20030312	EP 2001-920617		20010321

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

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				WO 2001-US9049	W	20010321

FAN 2002:814837

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 2002156022	A1	20021024	US 2001-36307		20011025
	US 6670398	B2	20031230			
				US 1997-47020P	P	19970514
				US 1998-79213	A1	19980514
				US 1999-370046	A2	19990806
				US 2000-191046P	P	20000321
				US 2001-815262	A2	20010321
	US 6147250	A	20001114	US 1998-79213		19980514
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	EP 1464639	A1	20041006	EP 2004-75141		19980514

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

				US 1997-47020P	P	19970514
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				US 1997-47020P	P	19970514
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL

			US 1997-47020P	P	19970514
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			US 1998-79213	A1	19980514
US 2002016300	A1	20020207	US 2001-815262		20010321
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			US 1998-79213	A	19980514
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			US 1997-47020P	P	19970514
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US 6828447	B2	20041207			
			US 1997-47020P	P	19970514
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			US 1998-79213	A1	19980514
			US 1999-370046	A2	19990806
			US 2000-191046P	P	20000321
			US 2001-815262	A2	20010321
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AU 2006202461	A1	20060629	AU 2006-202461		20060609
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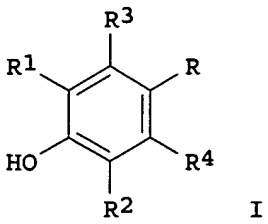
OS MARPAT 130:13646
GI



I

AB Title compds. [e.g., I; R = Z1Z2R5; R1,R2 = (un)substituted (cyclo)alkyl, -(hetero)aryl, etc.; R3,R4 = any group that does not otherwise adversely affect (sic) the desired properties of the mol. including H, halogen, or R1 (sic); R5 = (di)(alkyl)amino, alkyl, alkoxy(carbonyl), (hetero)aryl, etc.; Z1 = O SO0-2, NH, CH2; Z2 = bond, alkylene(oxy) aryleneoxy, etc.] were prepared Thus, 4-(BrCH2)C6H4CH2CO2H was thioetherified by 4-mercapto-2,6-di-tert-butylphenol to give I [R = SCH2C6H4(CH2CO2H)-4, R1 = R2 = CMe3, R3 = R4 = H]. Data for biol. activity of I were given.

=> l6
L8 5 L6

=> d l8 1-5 ti

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Probucol-related compounds and methods for treating diabetic vascular diseases

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Probucol-related compounds and methods for treating transplant rejection

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Probucol derivatives and methods for treating transplant rejection

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Methods and compositions to lower plasma cholesterol levels

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of phenolic compounds for the inhibition of the expression of VCAM-1

=> d l8 1-5 ti fbib abs

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Probucol-related compounds and methods for treating diabetic vascular diseases
AN 2006:53906 CAPLUS
DN 144:121801
TI Probucol-related compounds and methods for treating diabetic vascular diseases
IN Sundell, Cynthia L.; Kunsch, Charles
PA Atherogenics, Inc., USA
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006007508	A2	20060119	WO 2005-US23103	20050630
	WO 2006007508	A3	20060622		

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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

			US 2004-584638P	P	20040701
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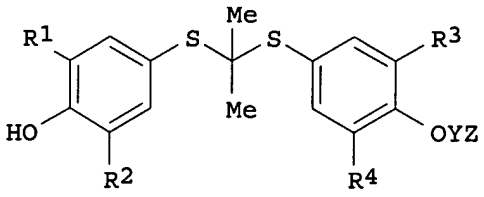
OS MARPAT 144:121801

GI



I

AB The invention discloses compns. and methods of use of compds. I [Y = bond, C(O); R1-R4 = H, OH, alkyl, aryl, etc.; Z = alkyl, alkenyl, alkynyl, aryl, etc.], and pharmaceutically acceptable salts thereof, for the treatment of diabetic vascular diseases such as diabetic neuropathy, nephropathy, and retinopathy. Compds. of the invention include e.g. AGIX-4207.

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Probucol-related compounds and methods for treating transplant rejection

AN 2003:376511 CAPLUS

DN 138:362670

TI Probucol-related compounds and methods for treating transplant rejection

IN Glass, Mitchell; Edwards, David B.

PA Atherogenics, Inc., USA

SO PCT Int. Appl., 87 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003039231	A2	20030515	WO 2002-US34187	20021025
WO 2003039231	A3	20031016		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

			US 2001-339535P	P	20011025
CA 2464717	AA	20030515	CA 2002-2464717		20021025
			US 2001-339535P	P	20011025
			WO 2002-US34187	W	20021025

US 2003153536	A1	20030814	US 2002-281027		20021025
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EP 1446113	A2	20040818	EP 2002-802807		20021025
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			US 2001-339535P	P	20011025
			WO 2002-US34187	W	20021025
CN 1606436	A	20050413	CN 2002-825601		20021025
			US 2001-339535P	P	20011025
JP 2005514344	T2	20050519	JP 2003-541339		20021025
			US 2001-339535P	P	20011025
			WO 2002-US34187	W	20021025

OS MARPAT 138:362670

AB The invention discloses the use of probucol-related compds. (Markush included), and pharmaceutically acceptable salts thereof, alone or in combination, for the treatment of transplant rejection.

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Probucol derivatives and methods for treating transplant rejection

AN 2002:814837 CAPLUS

DN 137:320305

TI Probucol derivatives and methods for treating transplant rejection

IN Edwards, David B.; Somers, Patricia K.; Glass, Mitchell

PA Atherogenics, Onc., USA

SO U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U.S. Ser. No. 815,262.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 4

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI US 2002156022	A1	20021024	US 2001-36307		20011025
US 6670398	B2	20031230			
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			US 1998-79213	A1	19980514
			US 1999-370046	A2	19990806
			US 2000-191046P	P	20000321
			US 2001-815262	A2	20010321
US 6147250	A	20001114	US 1998-79213		19980514
			US 1997-47020P	P	19970514
EP 1464639	A1	20041006	EP 2004-75141		19980514
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			US 1997-47020P	P	19970514
			EP 1998-922264	A3	19980514
EP 1468989	A2	20041020	EP 2004-75143		19980514
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			US 1997-47020P	P	19970514
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EP 1607089	A1	20051221	EP 2005-76752		19980514
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			US 1997-47020P	P	19970514
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US 2002016300	A1	20020207	US 2001-815262		20010321
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			US 1998-79213	A	19980514
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US 2002169215	A1	20021114		US 2002-114346		20020402
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				US 1997-47020P	P	19970514
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US 6828447	B2	20041207				
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				US 1998-79213	A1	19980514
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US 2002193446	A1	20021219		US 2002-114351		20020402
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				US 1998-79213	A1	19980514
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US 2004138147	A1	20040715		US 2003-744763		20031223
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				US 2003-744763	A1	20031223
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				US 1997-47020P	P	19970514
				AU 2002-300328	A3	20020730

PATENT FAMILY INFORMATION:

FAN 1998:761806

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9851289	A2	19981119	WO 1998-US9773		19980514
	WO 9851289	A3	19990514			
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	CA 2428130	AA	19981119	CA 1998-2428130		19980514
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AU 747801	B2	20020523				
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BR 9809793	A	20000627	BR 1998-9793		19980514	
			US 1997-47020P	P	19970514	
			WO 1998-US9773	W	19980514	
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			US 1997-47020P	P	19970514	
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US 6121319	A	20000919	US 1998-78935		19980514	
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			EP 1998-922264	A3	19980514	
NZ 528906	A	20050624	NZ 1998-528906		19980514	
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				AU 2002-300328	A3	20020730

FAN 1998:761875

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9851662	A2	19981119	WO 1998-US9781		19980514
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PI	WO 2001070757	A2	20010927	WO 2001-US9049		20010321
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				WO 2001-US9049	W	20010321
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				WO 2001-US9049	W	20010321
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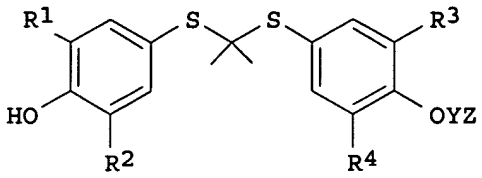
GI						



I

AB The invention discloses the use of I [R1-R4 = H, OH, C1-10 alkyl, aryl, heteroaryl, etc.; Y = bond, C(O); Z = C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl, etc.], and pharmaceutically acceptable salts thereof, alone or in combination, for the treatment of transplant rejection. Preparation of I [R1-R4 = tert-butyl; YZ = (CH2)3COOH] from probucol which was evaluated in a graft arteriopathy model and Me 4-chlorobutyrate is described.

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Methods and compositions to lower plasma cholesterol levels
AN 2000:335659 CAPLUS
DN 132:343330
TI Methods and compositions to lower plasma cholesterol levels
IN Medford, Russell M.; Saxena, Uday
PA Atherogenics, Inc., USA
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000028332	A1	20000518	WO 1999-US26519	19991109
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EP 1137948	B1	20060510		
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US 6887712	B1	20050503	US 1999-436892	19991109
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AT 326014	E	20060615	AT 1999-962732	19991109
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US 2005196819	A1	20050908	US 2005-121157	20050503
			US 1998-107644P	P 19981109
			US 1999-436892	A1 19991109

AB A method for determining whether a compound binds to a lipoprotein, e.g. LDL or VLDL, in a manner which will lower plasma cholesterol is provided that includes assessing the ability of the compound to form a complex with the lipoprotein, e.g., LDL or VLDL, and then determining whether the newly formed complex causes a change in the structure of apoB-100 that results in

increased binding affinity to the LDL receptor. Also disclosed is a method for lowering cholesterol in a host in need thereof, including a human, that includes the administration of an effective amount of a compound which binds to cholesterol-carrying lipoprotein (e.g. LDL or VLDL) in a manner that alters the three dimensional configuration of the lipoprotein and increases the binding affinity of the apoB-100 protein to the LDL receptor, including those on the surface of a hepatic cell.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of phenolic compounds for the inhibition of the expression of VCAM-1
AN 1998:761875 CAPLUS
DN 130:13646
TI Preparation of phenolic compounds for the inhibition of the expression of VCAM-1
IN Medford, Russell M.; Somers, Patricia K.; Hoong, Lee K.; Meng, Charles Q.
PA Atherogenics, Inc., USA
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 4

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			US 1999-370046	A1	19990806
			US 2002-60734	A1	20020130
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FAN 1998:761806

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				WO 1998-US9773	W	19980514
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FAN 2001:713364

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FAN 2002:814837

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				US 1999-370046	A2	19990806
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OS MARPAT 130:13646
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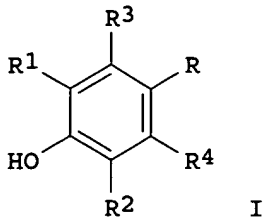

I

AB Title compds. [e.g., I; R = Z1Z2R5; R1,R2 = (un)substituted (cyclo)alkyl, -(hetero)aryl, etc.; R3,R4 = any group that does not otherwise adversely affect (sic) the desired properties of the mol. including H, halogen, or R1 (sic); R5 = (di)(alkyl)amino, alkyl, alkoxy(carbonyl), (hetero)aryl, etc.; Z1 = O SO0-2, NH, CH2; Z2 = bond, alkylene(oxy) aryleneoxy, etc.] were prepared Thus, 4-(BrCH2)C6H4CH2CO2H was thioetherified by 4-mercapto-2,6-di-tert-butylphenol to give I [R = SCH2C6H4(CH2CO2H)-4, R1 = R2 = CMe3, R3 = R4 = H]. Data for biol. activity of I were given.

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NEWS 7	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 8	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 9	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 10	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 11	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 12	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13	JUl 11	CHEMSAFE reloaded and enhanced

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 NEWS 14  JUl 14  FSTA enhanced with Japanese patents
 NEWS 15  JUl 19  Coverage of Research Disclosure reinstated in DWPI
 NEWS 16  AUG 09  INSPEC enhanced with 1898-1968 archive
 NEWS 17  AUG 28  ADISCTI Reloaded and Enhanced

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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http://www.cas.org/ONLINE/UG/regprops.html

=> e Phenol,
4-((1-((4-(acetyloxy)-3,5-bis(1,1-dimethylethyl)phenyl)thio)-1-methylethyl)thio)-2,6
-bis(1,1-dimethylethyl)-/cn
E1            1      PHENOL, 4-((1-((4-(4-AMINOBUTOXY)-3,5-DIMETHYLPHENYL)THIO)-1
                     -METHYLETHYL)THIO)-2,6-BIS(1,1-DIMETHYLETHYL)-/CN
E2            1      PHENOL, 4-((1-((4-(4-AMINOBUTOXY)PHENYL)THIO)-1-METHYLETHYL)
                     THIO)-2,6-BIS(1,1-DIMETHYLETHYL)-/CN
E3            1 --> PHENOL, 4-((1-((4-(ACETYLOXY)-3,5-BIS(1,1-DIMETHYLETHYL)PHEN
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YL)THIO)-1-METHYLETHYL)THIO)-2,6-BIS(1,1-DIMETHYLETHYL)-/CN
E4 1 PHENOL, 4-((1-((4-FLUOROPHENYL)METHYL)-1H-TETRAZOL-5-YL)(4-M
ETHYL-1-PIPERAZINYL)METHYL)-/CN
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O)-/CN
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/CN
E9 1 PHENOL, 4-((1-(1-(2,6-DIMETHYLPHENYL)-1H-TETRAZOL-5-YL)CYCLO
HEXYL)AMINO)-/CN
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PENTYL)AMINO)-/CN
E11 1 PHENOL, 4-((1-(1-(METHOXYMETHYL)PROPYL)-6-METHYL-1H-1,2,3-TR
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=> e3
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THIO)-1-METHYLETHYL)THIO)-2,6-BIS(1,1-DIMETHYLETHYL)-"/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 729583-53-3 REGISTRY
ED Entered STN: 21 Aug 2004
CN Phenol, 4-[[1-[[4-(acetyloxy)-3,5-bis(1,1-dimethylethyl)phenyl]thio]-
1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)- (9CI) (CA INDEX
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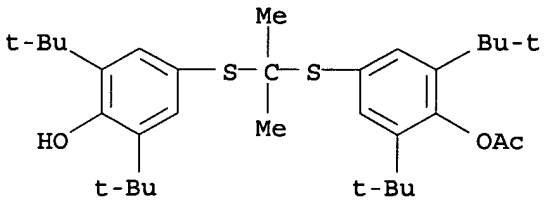

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2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FULL ESTIMATED COST 7.10 7.31

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L2 2 L1

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L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for preparing esters of probucol and derivatives thereof using acid anhydrides in the presence of DBU or DBN.
AN 2005:1170583 CAPLUS
DN 143:440071
TI Process for preparing esters of probucol and derivatives thereof using acid anhydrides in the presence of DBU or DBN.
IN Weingarten, David M.
PA Atherogenics, Inc., USA
SO PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
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OS MARPAT 143:440071
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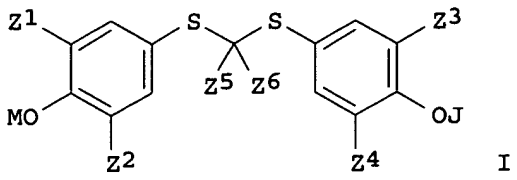

I

AB Title compds. [I; Z1-Z4 = H, (substituted) alkyl; Z5, Z6 = (substituted) alkyl, alkenyl, aryl; Z5Z6 = atoms to form a carbocyclic ring; M = H, (substituted) (unsatd.) acyl; J = (substituted) (unsatd.) acyl], were prepared by reaction of I (M, J = H; other variables as above) with (substituted) (unsatd.) acyl halides, carboxylic acid anhydrides, or carboxylic acid esters in the presence of R1R3NCY(:NR4) (Y = R2, NR2R5; R1-R5 = (substituted) alkyl, alkenyl; R1R2, R3R4 = atoms to form rings). Thus, probucol, succinic anhydride, and DBU were stirred in MeCN at 50° for 1 h to give a mixture comprising probucol monosuccinate 49 weight%, probucol disuccinate 18 weight%, and probucol 33 weight%.

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process of preparing esters and ethers of probucol and derivatives thereof
AN 2004:610066 CAPLUS
DN 141:156929
TI Process of preparing esters and ethers of probucol and derivatives thereof
IN Weingarten, M. David; Sikorski, James A.
PA Atherogenics, Inc., USA
SO PCT Int. Appl., 136 pp.
CODEN: PIXXD2
DT Patent
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FAN.CNT 1

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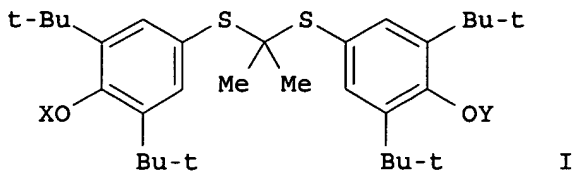

I

AB Probucol or a probucol derivative can be efficiently converted to a monoester or monoether of probucol (I) [wherein R1-R4 = H, (un)substituted alkyl; R5, R6 = each (un)substituted alkyl, alkenyl, or aryl; or R5 and R6 can come together to form a carbocyclic ring; X, Y = H, optionally substituted (un)saturated acyl having from 1 to 18 carbon atoms each optionally containing a polar or charged functionality] by reacting the free hydroxyl-containing probucol or a derivative thereof (by which is meant a probucol compound with at least one substituent that is different from that on the parent probucol mol. but which maintains the two free hydroxyl groups), i.e., I (X = Y = H; R1-R6 = same as above), with a Grignard reagent or a lithium reagent that produces a magnesium bromide or lithium salt of probucol or the probucol derivative The probucol compound anion is then reacted with an ester or ether forming compound Thus, in a dry 25 mL 3-neck round bottom flask fitted with a reflux condenser, nitrogen inlet, thermocouple and stir bar was charged probucol (0.25 g, 0.48 mmol) followed by 2.5 mL anhydrous toluene and then isopropylmagnesium chloride (0.51 mL, 2.0 M in THF) in 1 portion. The reaction was brought to room temperature and then succinic anhydride (0.25 g, 2.5 mmol) was added in 1 portion. After aging for 45 min, the reaction was slowly quenched with 1 N HCl and diluted with EtOAc. The biphasic reaction was then cooled to room temperature and the phases were separated to give an organic layer containing 60% probucol monosuccinate, 13% probucol disuccinate, and 27% probucol according to HPLC anal.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	9.16	16.47

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